

**STATEMENT OF CONSIDERATION FOR
401 KAR 10:026, 10:029, 10:030, and 10:031**

**Attachment 1
Exceptional Water and Reference Reach Multi-metric Index Scores**

The Macroinvertebrate Bioassessment Index and the Kentucky Index of Biotic Integrity for Fish utilize several metrics that describe different aspects of the community's health. Each metric score is added together and the average mean calculated to produce a final index score. These scores are compared to biological criteria for ecological regions of the state. The following table shows these best Kentucky streams as determined by the quality of their biological communities.

Stream Name	County	Upstream-Downstream Locations	Macro-invertebrate Bioassessment Index	Kentucky Index of Biotic Integrity (Fish)
Big Sandy River				
Hobbs Fork*	Martin	Mouth to Headwaters	93.5 E	N/A
Russell Fork*	Pike	Clinch Field RR Yard off HWY 80 to Virginia State Line	75 G	75 G
Toms Branch*	Pike	Mouth to Headwaters	96.1 E	N/A
UT to Hobbs Fork*	Martin	Hobbs Fork to Headwaters	92.8 E	N/A
Little Sandy River				
Arabs Fork*	Elliott	Clays Fork to Headwaters	81.3 G	74 E
Big Caney Creek*	Elliott, Rowan	Grayson Lake Backwaters to Headwaters	95.0 E	62 G
Big Sinking Creek*	Carter, Elliott	KY 986 to the Confluence of Clay Fork and Arabs Fork	80.2 G	74 E
Laurel Creek*	Elliott, Rowan	Carter School RD Bridge to Headwaters	85.9 E	63 G
Meadow Branch*	Elliott	Mouth to Headwaters	77.2 G	N/A
Middle Fork Little Sandy River*	Elliott	Mouth to Sheepskin Branch	78.5 G	71 E
Nichols Fork*	Elliott	Green Branch to Headwaters	79.9G	N/A
Licking River				
Blackwater Creek*	Morgan	Eaton Creek to Greasy Fork	76.8 G	74 E

Blanket Creek	Pendleton	Mouth to UT	N/A	52 E
Botts Fork*	Menifee	Mouth to Land Use Change	83.2 E	80 E
Bowman Creek	Kenton	Mouth to UT	N/A	66 E
Brushy Fork*	Menifee	Cave Run Lake Backwaters to Headwaters	N/A	74 E
Brushy Fork*	Pendleton	Mouth to Headwaters	64.1E	N/A
Bucket Branch*	Morgan	Mouth to Headwaters	76.5 G	77 E
Cedar Creek	Robertson	Mouth to North Branch Cedar Creek	N/A	57 E
Craney Creek	Morgan, Rowan	Mouth to Headwaters	88.6 E	N/A
Devils Fork*	Elliott, Morgan	Mouth to Headwaters	88.3 E	76 E
Flour Creek	Pendleton	Mouth to UT	N/A	52 E
Grovers Creek*	Bracken, Pendleton	Kincaid Lake Backwaters to Headwaters	N/A	53 E
Licking River	Bath, Rowan	KY 211 to Unnamed Road off Slatey Point Road	75.1 E	N/A
North Fork Licking River*	Morgan	Cave Run Lake Backwaters to Devils Fork	80.6 G	77 E
Sawyers Fork	Kenton	Mouth to Headwaters	62.2 E	N/A
Slabcamp Creek	Rowan	Mouth to Headwaters	N/A	74 E
Slate Creek	Bath	Mouth to Mill Creek	78.1 E	N/A
South Fork Grassy Creek*	Pendleton	Mouth to Greasy Creek	77.3 E	58 E
UT Shannon Creek	Mason	Mouth to Headwaters	76.0 E	N/A
Welch Fork*	Menifee	Mouth to First Road Crossing	86.1 E	75 E
West Creek*	Harrison, Robertson	Mouth to Headwaters	72.9 E	44 F
Kentucky River				
Backbone Creek*	Franklin, Henry, Shelby	Mouth to Scrabble Creek	56 G	53 E
Bear Branch	Perry	Above Sediment Pond to Headwaters	90.2 E	N/A

Big Double Creek*	Clay	Mouth to Confluence of Right Fork and Left Fork	73.1 G	82 E
Bill Branch*	Harlan	Mouth to Right Fork Bill Branch	91.5 E	N/A
Billey Fork	Lee, Estill	Land Use Change to Headwaters	86.3 E	N/A
Bill Oak Branch	Owsley	Mouth to Headwaters	85.1 E	N/A
Buffalo Creek*	Owsley	Mouth to Confluence of Right Fork and Left Fork	N/A	89 E
Cavanaugh Creek*	Jackson	Mouth to Foxtown Road	95.4 E	70 G
Cherry Run	Scott	Mouth to Boyd Run	N/A	58 E
Chester Creek*	Wolfe	Mouth to Headwaters	84.0 E	80 E
Clear Creek*	Woodford	Mouth to East Fork Clear Creek	80.6 E	68 E
Clemons Fork*	Breathitt	Mouth to Headwaters	90.8 E	N/A
Coles Fork*	Breathitt, Knott	Mouth to Headwaters	76.7 G	49 F
Craig Creek*	Woodford	Mouth to UT	55.6 G	40 F
Deep Ford Branch	Leslie	Above Pond to Headwaters	83.6 E	N/A
Drennon Creek*	Henry	Fivemile Creek to Town Creek	61 G	55 E
East Fork Indian Creek*	Menifee	West Fork Indian Creek to Headwaters	N/A	73 E
Elisha Creek*	Leslie	Land Use Change to Confluence Rt. and Mid. Fk.	80 G	77 E
Emily Run	Henry	Mouth to UT	N/A	62 E
Evans Fork*	Estill	Mouth to Headwaters	84.2 E	N/A
Falling Rock Branch*	Breathitt	Mouth to Headwaters	88.8 E	N/A
Gilberts Creek	Anderson	Mouth to UT	N/A	60 E
Gladie Creek*	Menifee	Land Use Change to Long Branch	85.4 E	87 E
Goose Creek	Clay, Leslie	Mouth to Laurel Creek	N/A	81 E
Griers Creek*	Woodford	Kentucky River Backwaters to UT	72.5 E	N/A
Grindstone Creek*	Franklin	Kentucky River Backwaters to Headwaters	68.8 E	N/A

Hardwick Creek	Powell	Mouth to Little Hardwick Creek	N/A	75 E
Hell for Certain Creek	Leslie	Mouth to Big Fork	N/A	75 E
Hines Creek*	Madison	Kentucky River Backwaters to UT	56.8 G	N/A
Honey Branch*	Leslie	Mouth to Headwaters	90.4 E	N/A
Hopper Cave Branch*	Jackson	Mouth to Headwaters	83.9 E	N/A
Indian Creek*	Carroll	Mouth to Headwaters	64.7 G	49 G
Indian Fork*	Shelby	Mouth to Headwaters	N/A	47 F
John Carpernter Fork*	Breathitt	Mouth to Headwaters	76.7 G	N/A
Katies Creek	Clay	Mouth to Headwaters	92.5 E	N/A
Laurel Fork*	Owsley	Cortland Fork to Big Branch	73.6 G	N/A
Left Fork Big Double Creek*	Clay	Mouth to Headwaters	87.5 E	N/A
Line Fork*	Letcher	Defeated Creek to Headwaters	72.2 F	N/A
Little Middle Fork Elisha Creek*	Leslie	Mouth to Headwaters	71.4 G	N/A
Little Millseat Branch*	Breathitt	Mouth to Headwaters	86.8 E	N/A
Little Sixmile Creek*	Henry	Mouth to Headwaters	63 G	51 G
Lower Howard Creek	Clark	Mouth to West Fork	N/A	57 E
Lulbegrud Creek	Clark, Powell	Mouth to Falls Branch	N/A	54 E
Middle Fork Kentucky River*	Leslie	Hurts Creek to Greasy Creek	82 E	90 E
Middle Fork Kentucky River	Lee, Owsley	Mouth to Upper Twin Creek	N/A	83 E
Middle Fork Red River	Powell	South Fork Red River to Natural Bridge State Park Lake	N/A	89 E
Mikes Branch	Owsley	Mouth to Headwaters	87.7 E	N/A
Mill Creek*	Owen	Kentucky River Backwaters to Headwaters	69.8 E	48 G
Millseat Branch*	Breathitt	Mouth to Headwaters	83 E	N/A

Muddy Creek*	Madison	Elliston, KY to Viney Creek	N/A	44 F
Musselman Creek*	Grant	Mouth to Headwaters	71.7 E	52 G
Red Bird River	Clay	Mouth to Big Creek	N/A	72 E
Right Fork Buffalo Creek*	Owsley	Mouth to Headwaters	N/A	90 E
Right Fork Elisha Creek	Leslie	Mouth to Headwaters	83.1 E	N/A
Roaring Fork*	Breathitt	Mouth to Headwaters	90.5 E	N/A
Rock Lick Creek*	Jackson	Mouth to Headwaters	N/A	77 E
Sand Ripple Creek*	Henry	Kentucky River Backwaters to Headwaters	47.5 F	N/A
Severn Creek*	Owen	Kentucky River Backwaters to North Fork Severn Creek	76.8 E	58 E
Shaker Run	Mercer	Near Mouth to Shawnee Run	N/A	54 E
Shelly Rock Fork*	Breathitt	Mouth to Headwaters	85.6 E	N/A
Sixmile Creek*	Henry	Little Sixmile Creek to Cedarmore Lake Dam	75.9 E	62 E
South Fork Kentucky River	Owsley	Mouth to Sexton Creek	N/A	90 E
South Fork Red River	Powell	Mouth to Sandlick Fork	N/A	87 E
South Fork Station Camp Creek*	Jackson	Mouth to Rock Lick Creek	N/A	52 F
Spruce Branch*	Clay	Mouth to Headwaters	91.8 E	N/A
Station Camp Creek*	Estill, Jackson	Land Use Change to South Fork Station Camp Creek	83 E	56 F
Steeles Run	Fayette	Mouth to UT	64 E	N/A
Steer Fork*	Jackson	Mouth to Headwaters	95.7 E	N/A
Sturgeon Creek*	Lee, Owsley	Duck Fork to Little Sturgeon Creek	84.8 E	N/A
Sugar Creek*	Leslie	Land Use Change to Headwaters	N/A	70 G

Sulphur Lick Creek*	Franklin	Mouth to Headwaters	N/A	61 E
UT Cawood Branch*	Owsley	Mouth to Headwaters	70.5 F	N/A
UT Cedar Creek*	Owen	Mouth to Headwaters	59.4 E	N/A
UT Glens Creek*	Woodford	Mouth to Headwaters	70.5 E	N/A
UT Jacks Creek*	Madison	Mouth to Headwaters	62 E	N/A
UT Kentucky River*	Franklin	Land Use Change to Headwaters	64.2 E	N/A
UT Line Fork*	Letcher	Mouth to Headwaters	90.7 E	N/A
War Fork*	Jackson	Mouth to Headwaters	N/A	50 F
Watches Fork	Owsley	Mouth to Headwaters	84.7 E	N/A
Wolfpen Creek*	Menifee	Mouth to Headwaters	N/A	82 E
Salt River				
Brashears Creek	Shelby, Spencer	Guist Creek to Confluence of Bullskin and Clear Creeks	75.3 E	65 E
Cedar Creek*	Bullitt	Mouth to Greens Branch	60.5 G	65 E
Chaplin River*	Mercer, Washington	Thompson Branch to Cornishville, KY	74.6 E	46 F
Doctors Fork	Boyle	Mouth to Begley Branch	N/A	54 E
Guist Creek	Spencer	Mouth to Jephtha Creek	N/A	66 E
Harts Run*	Bullitt	Mouth to Headwaters	71.6 E	72 E
Indian Creek	Mercer	Mouth to UT	N/A	56 E
Lick Creek*	Washington	Mouth to 0.1 Mile below Reservoir Dam	N/A	50 G
Otter Creek*	Larue	Land Use Change to Confluence of East Fork and Middle Fork	85.1 E	74 E
Overalls Creek*	Bullitt	Mouth to Middle Fork Overalls Creek Headwaters	78.3 E	82 E
Salt Lick Creek*	Larue, Marion	Mouth to Headwaters	85.1 E	54 G
Sulphur Creek*	Anderson, Mercer, Washington	Mouth to Confluence of Cheese Lick and Brush Creeks	67.8 G	65 E
UT Glens Creek	Washington	Mouth to Headwaters	67.1 E	N/A
West Fork Otter Creek*	Larue	Mouth to Headwaters	N/A	74 E
Wilson Creek*	Bullitt, Nelson	Mouth to Headwaters	75.6 G	58 G

Green River				
Beaverdam Creek*	Edmonson	Mouth to Headwaters	85.6 E	61 G
Big Brush Creek	Green	Brush Creek to Poplar Grove Branch	82.6 E	N/A
Cane Run*	Hart	Nolin Lake Backwaters to Headwaters	87.8 E	71 F
Caney Fork*	Barren	Mouth to Headwaters	83.9 E	86 G
Clifty Creek*	Grayson	Barton Run to Western Kentucky Parkway	65.4 F	61 G
Clifty Creek*	Todd	Little Clifty Creek to Sulphur Lick	50.2 G	61 G
East Fork Little Barren River*	Metcalfe	Red Lick Creek to Flat Creek	81.4 E	94 E
Elk Lick Creek	Logen	Duck Lick Creek to Barren Fork and Edger Creek	87.1 E	60 G
Ellis Fork*	Adair, Russell	Mouth to Headwaters	N/A	80 G
Fallilng Timber Creek*	Barren, Metcalfe	Land Use Change to Headwaters	N/A	84 E
Fiddlers Creek*	Breckinridge	Mouth to Headwaters	71.2 F	74 E
Forbes Creek*	Christian	Mouth to UT	73.6 G	N/A
Gasper River*	Logan, Warren	Clear Fork to Wigginton Creek	74.2 G	63 G
Goose Creek*	Casey, Russell	Mouth to Little Goose Creek	80.1 E	77 G
Green River#	Edmonson, Hart	Downstream of Mammoth Cave National Park to Lynn Camp Creek	N/A	N/A
Halls Creek*	Ohio	UT to Headwaters	72.5 E	59 G
Lick Creek*	Simpson	Mouth to Headwaters	79.6 G	67 E
Linders Creek*	Hardin	Mouth to Sutzer Creek	81.1 E	74 E
Little Beaverdam Creek*	Edmonson, Warren	Mouth to KY 743	59.7 F	N/A
Little Short Creek*	Grayson	Mouth to Headwaters	71.5 E	62 G
Lynn Camp Creek*	Hart	Mouth to Lindy Creek	88.2 E	90 E
McFarland Creek*	Christian	Grays Branch to UT	54.8 G	56 G

Meeting Creek*	Grayson, Hardin	Little Meeting Creek to Petty Branch	67.6 F	71 E
Muddy Creek*	Ohio	Land Use Change to Headwaters	42.9 F	N/A
North Fork Rough River*	Breckinridge	Buffalo Creek to Reservoir Dam	69.7 F	61 G
Peter Creek*	Barren	Caney Fork to Dry Fork	82.6 E	80 E
Pond Run*	Breckinridge, Ohio	Land Use Change to Headwaters	82.8 E	51 G
Puncheon Creek	Allen	Mouth to Tennessee State Line	82.4 E	N/A
Rough River*	Hardin	Linders Creek to Vertrees Creek	80 G	70 E
Russell Creek*	Adair, Russell	Reynolds Creek to Confluence of Hudson and Mount Olive Creeks	78 G	93 E
Russell Creek*	Adair, Green	Mouth to Columbia WWTP	N/A	93 E
Sixes Creek*	Ohio	Wild Branch to Headwaters	48.2 F	53 G
Sulphur Branch*	Edmonson	Mouth to Headwaters	72.4 E	80 E
Thompson Branch	Simpson	Webb Branch to Tennessee State Line	72 E	N/A
Trammel Creek*	Allen, Warren	Mouth to Tennessee State Line	61.7 F	88 E
UT Green River*	Adair	Land Use Change to Headwaters	71.4 G	N/A
UT White Oak Creek *	Adair	Hovious Road Crossing to KY 76	76.3 E	70 F
West Fork Pond River*	Christian	UT to East Branch Pond River	55.7 G	71 E
Lower Cumberland River				
Crooked Creek*	Trigg	Energy Lake Backwaters to Headwaters	61.1 E	39 F
Donaldson Creek*	Trigg	Craig Branch to UT	N/A	78 E
Elk Fork*	Todd	Tennessee State Line to Dry Branch	75.8 G	45 F
Sugar Creek*	Livingston	Lick Creek to UT	34.8 F	64 G
West Fork Red River*	Christian	Tennessee State Line to Montgomery Creek	72.6 G	51 F

Whippoorwill Creek*	Logan	Mouth to Vicks Branch	75.3 G	67 E
Tennessee River				
Blood River*	Calloway	McCullough Fork to Tennessee State Line	73 E	39 F
Clarks River	Marshall	Persimmon Slough to Middle Fork Creek	67 E	N/A
Grindstone Creek*	Calloway	Kentucky Lake Backwaters to Headwaters	55.7 F	70 E
Panther Creek*	Calloway	Kentucky Lake Backwaters to Headwaters	71 E	66 G
Panther Creek*	Graves	Channelization to Reservoir Dam	63 E	81 E
Soldier Creek*	Marshall	Mouth to South Fork Soldier Creek	55 G	51 G
Sugar Creek*	Calloway	Kentucky Lake Backwaters to Buzzard Roost Road	N/A	68 E
Sugar Creek*	Graves	Mouth to Reservoir Dam	N/A	69 E
Trace Creek*	Graves	Mouth to Neeley Branch	N/A	75 E
UT UT Panther Creek*	Graves	Mouth to Headwaters	58.9 E	N/A
West Fork Clarks River*	Graves	Solder Creek to Duncan Creek	68 E	68 E
Wildcat Creek*	Calloway	Ralph Wright Road to Headwaters	N/A	65 G
Tradewater River				
East Fork Flynn Fork*	Caldwall	Land Use Change to Headwaters	61 G	N/A
Piney Creek*	Caldwell, Christian	Lake Beshear Backwaters to Headwaters	71.2 G	59 G
Sandlick Creek*	Christian	Camp Creek to Headwaters	73.9 E	53 G
Tradewater River*	Christian	Dripping Springs Branch to Buntin Lake Dam	61.8 F	49 F
UT Piney Creek*	Caldwell	Mouth to Headwaters	78.8 E	55 G

UT Sandlick Creek*	Christian	Mouth to Headwaters	72 E	N/A
Ohio River				
Crooked Creek*	Crittenden		N/A	67 E
Double Lick Creek*	Boone	Mouth to Headwaters	62.9 E	N/A
Garrison Creek*	Boone	Mouth to Headwaters	67.8 E	N/A
Kinniconick Creek*	Lewis	McDowell Creek to Headwaters	82.2 E	63 G
Little South Fork	Boone	Land Use Change to Headwaters	66.7 E	N/A
Middle Fork Massac Creek*	McCracken	Hines Road to Headwaters	54 G	40 F
Second Creek*	Boone	Ohio River Backwaters to UT	62.9 E	N/A
UT Big Sugar Creek*	Gallatin	I-71 to UT	55.4 G	N/A
UT Corn Creek*	Trimble	Mouth to Headwaters	60.7 E	N/A
UT Massac Creek*	McCracken	Mouth to Headwaters	51.8 F	54 G
West Fork Massac Creek*	McCracken	KY 725 to Little Massac Creek	49 G	56 G
Yellowbank Creek*	Breckinridge	Ohio River Backwaters to Headwaters	59 F	51 G
Mississippi River				
Jackson Creek*	Graves	Mouth to Headwaters	40 F	50 G
Obion Creek*	Carlisle, Hickman	Hurricane Creek to Little Creek	53 G	52 G
Terrapin Creek*	Graves	Tennessee State Line to Confluence of West Fork Terrapin and Coldwell Creeks	52 G	76 E
Upper Cumberland River				
Bad Branch**	Letcher	Mouth to Headwaters	60.8 F	N/A
Bark Camp Creek*	Whitley	Mouth to Martins Fork	87.2 E	N/A
Beaver Creek*	McCreary	Lake Cumberland Backwaters to Confluence of Freeman Fork and Middle Fork	87.4 E	64 G

Bee Lick Creek	Pulaski	Mouth to Warren Branch	N/A	69 E
Brownies Creek*	Bell, Harlan	Blacksnake Branch to Headwaters	89.9 E	42 F
Brush Creek*	Rockcastle	Wolf Creek to Reemergence of Sinking Creek	N/A	66 G
Brushy Creek*	Pulaski	Mouth to Headwaters	84.6 E	66 G
Buck Creek*	Lincoln, Pulaski	Lake Cumberland Backwaters to Headwaters	84.9 E	67 E
Bunches Creek*	Whitley	Mouth to Confluence of Amos Falls and Seminary Branches	83.4 E	62 E
Cane Creek*	Laurel	Mouth to Headwaters	84.1 E	49 F
Clifty Creek	Pulaski	Mouth to Rocky Branch	N/A	77 E
Cogur Fork*	McCreary	Mouth to Headwaters	85.4 E	48 G
Cumberland River#	Whitley, McCreary	Wild River Boundaries		
Dog Slaughter Creek*	Whitley	Mouth to Confluence of North and South Forks	83 E	38 F
Eagle Creek*	McCreary	Mouth to Headwaters	79.7 G	41 F
Fugitt Creek*	Harlan	Land Use Change to Headwaters	87.1 E	37 F
Horse Lick Creek*	Jackson, Rockcastle	Mouth to Clover Bottom Creek	80.3 G	80 E
Howards Creek*	Clinton	Dale Hollow Lake Backwaters to Headwaters	79.7 G	65 G
Indian Creek*	McCreary	Kilburn Fork to Barren Fork	86.7 E	63 E
Jackie Branch*	Whitley	Mouth to Headwaters	83 E	N/A
Kilburn Fork	McCreary	Mouth to Headwaters	N/A	60 E
Laurel Creek	McCreary	Mouth to Laurel Creek Dam	N/A	69 E
Laurel Fork*	Jackson	Mouth to Headwaters	88.5 E	85 E
Laurel Fork*	Whitley	Tennessee State Line to Tiny Branch	N/A	48 G

Left Fork Fugitt Creek	Harlan	Mouth to Headwaters	84.1 E	N/A
Little South Fork Cumberland River**	McCreary, Wayne	Lake Cumberland Backwaters to Langham Branch	87.5 E	75 E
Marsh Creek*	McCreary	Laurel Creek to Headwaters	83.2 E	50 G
Martins Fork Cumberland River#	Bell, Harlan	Rough Branch to Headwaters		
McFarland Creek	Monroe	Little McFarland Creek to Spring Branch	N/A	84 E
Meshack Creek	Monroe	Mouth to Pitcock Branch	N/A	75 E
Middle Fork Rockcastle River*	Jackson	Mouth to Confluence of Indian Creek and Laurel Fork	83.3 E	84 E
Mud Camp Creek*	Cumberland	Mouth to Collins Branch	71.4 G	56 G
Mud Camp Creek*	Cumberland, Monroe	UT to Headwaters	82.4 E	67 E
Otter Creek	Wayne	Lake Cumberland Backwaters to Carpenters Fork	86.5 E	74 E
Poor Fork Cumberland River*	Letcher	Franks Creek to Headwaters	91.2 E	60 E
Presley House Branch*	Letcher	Mouth to Headwaters	75.5 G	N/A
Puncheoncamp Branch*	McCreary	Mouth to Headwaters	92.4 E	N/A
Rock Creek*	McCreary	White Oak Creek to Tennessee State Line	92.6 E	76 E
Rockcastle River#	Laurel, Pulaski, Rockcastle	Wild River Boundaries		
Shillalah Creek*	Bell	Mouth to Headwaters	75.4 G	N/A
Sinking Creek*	Laurel	Mouth to White Oak Creek	77.9 G	69 G

Sulphur Creek*	Clinton	Dale Hollow Lake Backwaters to Headwaters	72 G	66 G
South Fork Dog Slaughter Creek*	Whitley	Mouth to Headwaters	86.3 E	35 F
South Fork Rockcastle River	Laurel	Mouth to White Oak Creek	N/A	78 E
UT Rock Creek*	McCreary	Mouth to Headwaters	85.5 E	N/A
UT Rock Creek*	McCreary	Mouth to Headwaters	89.2 E	N/A
Watts Branch*	McCreary	Mouth to Headwaters	90.3 E	N/A
Watts Creek*	Harlan		83.2 E	N/A

* = Reference Reach

= Wild River

Streams in **bold** are already OSRWs